Claims

1-27. (Cancelled)

28. (Previously presented) A process for melting materials having hazardous and/or contaminated substances, comprising:

placing materials including the hazardous and/or contaminated substances into a container that can withstand temperatures of up to 2000 degrees C without significant degradation of the container wherein the container has a cavity and includes a slip form positioned in the cavity;

heating the materials in the container to a molten state;

vitrifying the molten materials without removing molten materials from the container to form a vitrified product in the container that contains at least a portion of the hazardous and/or contaminated substances immobilized therein; and

discarding the container with the vitrified product therein or removing the vitrified product from the container.

- 29. (Previously presented) The process of claim 28 further including the step of placing sand in the container behind the slip form.
- 30. (Previously presented) The process of claim 29 further including removing the slip form from the container and leaving the sand.
- 31. (Original) The process of claim 29 wherein the slip form is not removed from the container.
- 32. (Previously presented) The process of claim 29 wherein the container has a plurality of walls and an opening is defined between the plurality of walls and the slip form.
- 33. (Original) The process of claim 32 that further includes the step of placing sand in the opening.

- 34. (Previously presented) The process of claim 29 wherein the container has a plurality of walls and a bottom and a first opening is defined between the plurality of walls and the slip form and a second opening is formed between the bottom and the slip form.
- 35. (Original) The process of claim 34 that further includes the step of placing sand in both the first opening and the second opening.

36-42. (Cancelled)

43. (Previously presented) A process for melting materials to be treated, the process comprising:

placing hazardous and/or contaminated and/or waste materials to be treated into a container, wherein the container does not comprise a region formed in the ground;

covering the material with soil prior to heating;

heating the hazardous and/or contaminated and/or waste materials to be treated in the container until the materials to be treated melt to create melted hazardous and/or contaminated and/or waste materials; and

allowing the melted hazardous and/or contaminated and/or waste materials to cool in the container to create a vitrified hazardous and/or contaminated and/or waste material.

44-70. (Cancelled)